LNA 1 &BPF 15

LNA 2 &BPF 20

Down Converter Demodulator 1 25

Down Converter Demodulator 2 30

Receiver 1 35

Receiver 2 40

Diversity Controller 45

Buffer 50

Data out 55

Data & Er. Information

5-1

10-1
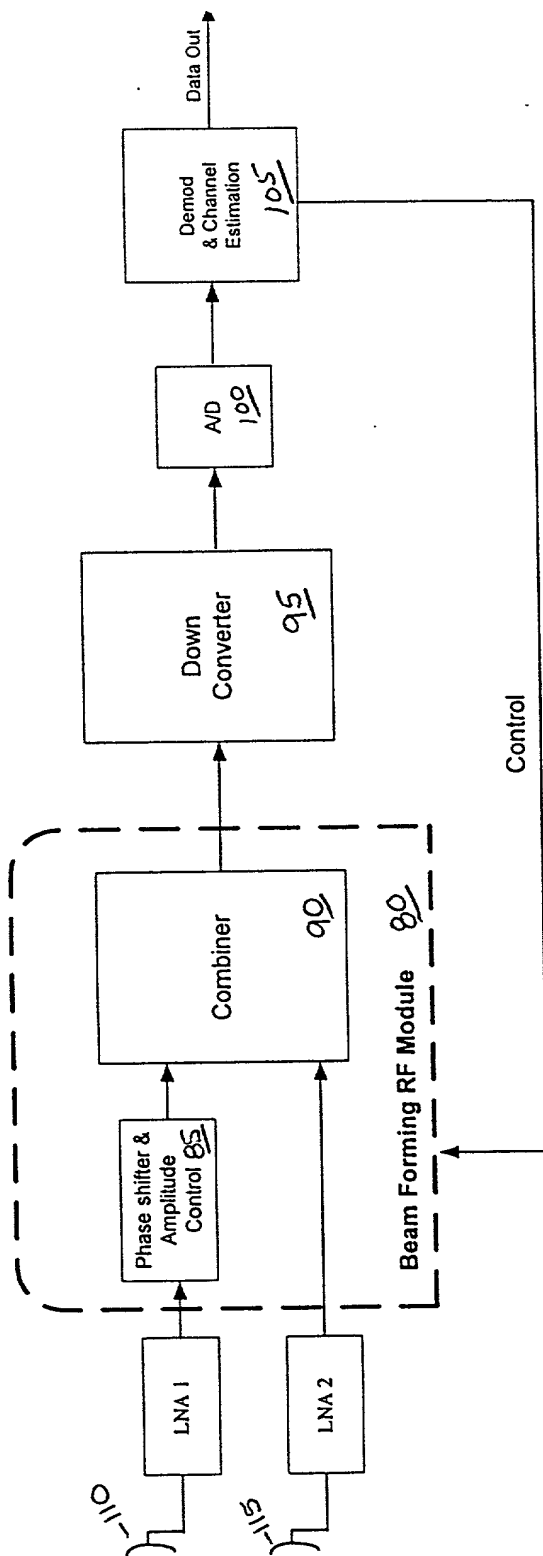
Fig 1: Antenna Diversity – Dual RF Channels Implementation

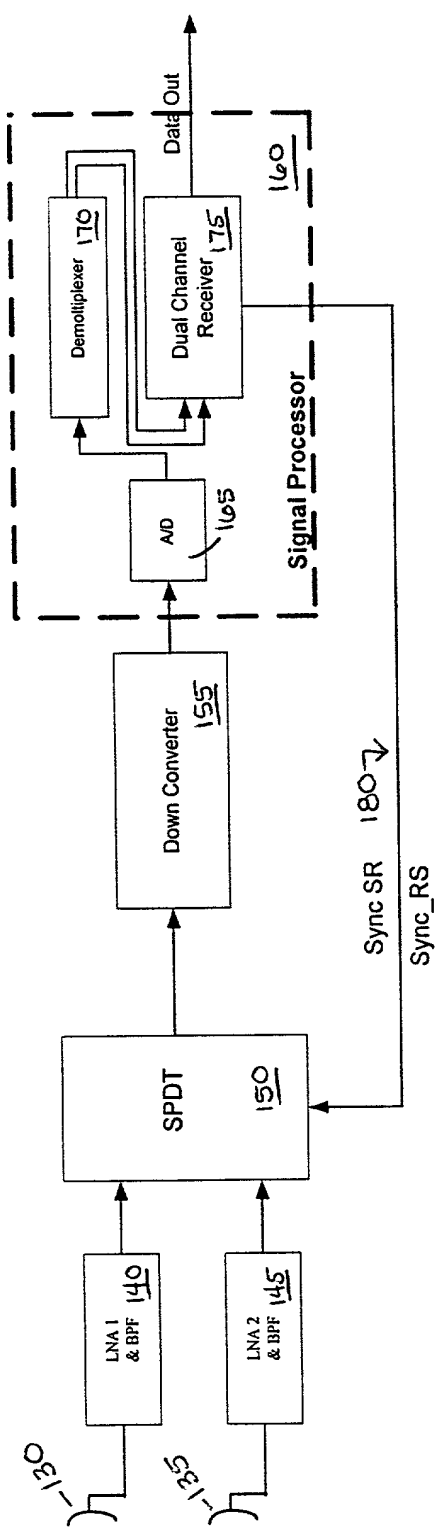**Fig 2: RF Implementation Of Beam Forming (2 Elements Example)**

Fig 3: Antenna Diversity & Beam Forming - Signal Processing Implementation
Genral Block Diagram

Data Out

Decoding 240

Channel Estimation 220

Beam forming & Demod 225

Sync_SR 230
To SPDT

BPF 210

BPF 215

Sync_SR_Delay 235

Demultiplexer 205

A/D 200

IF/Baseband In

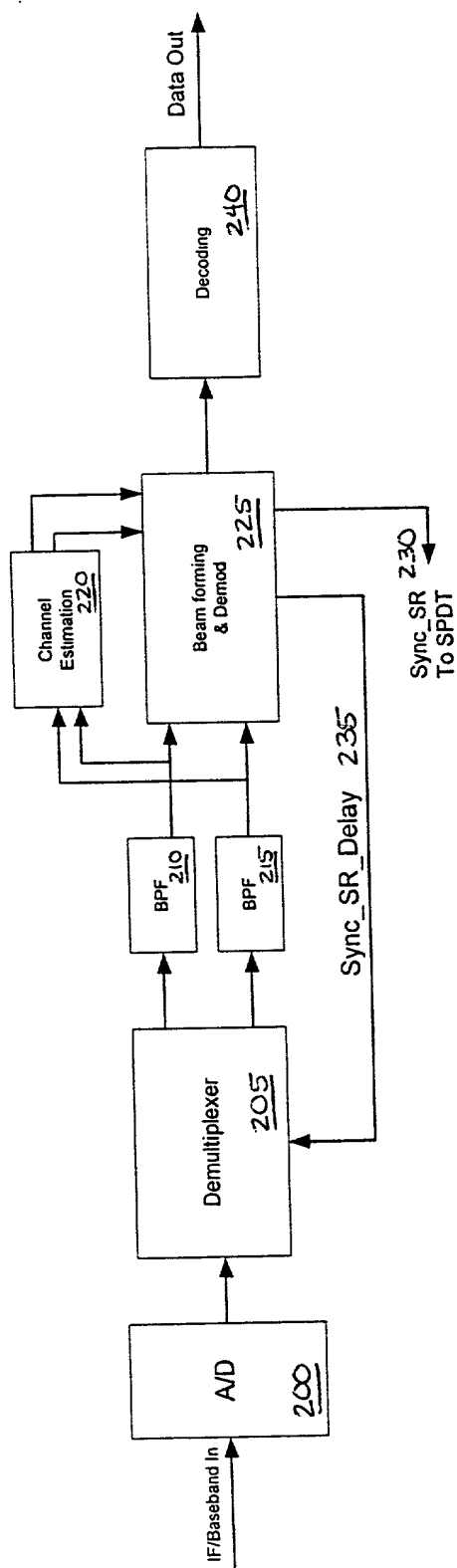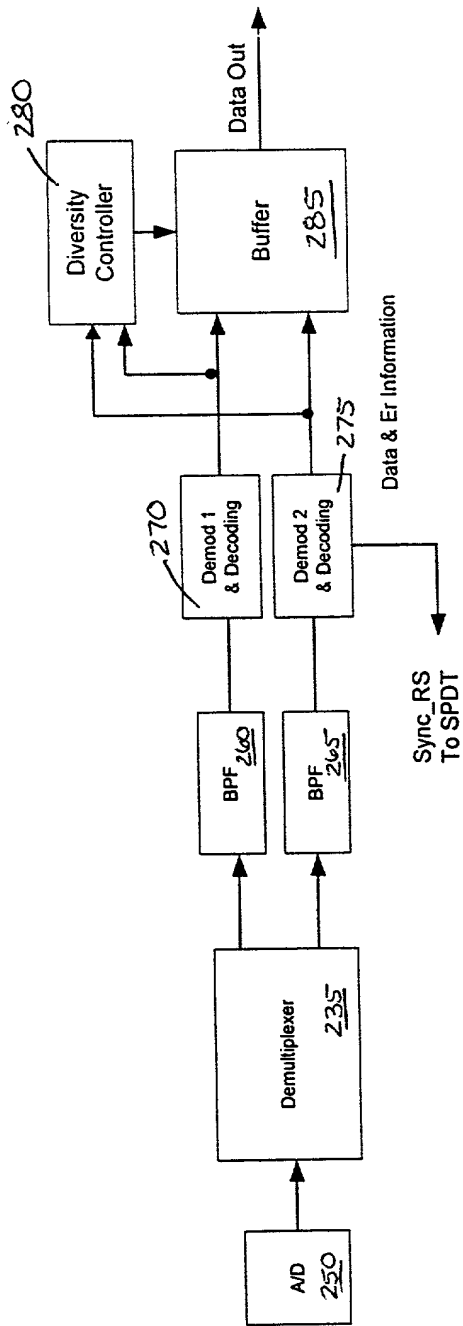**Fig 4: Signal Processor Implementation Of Beam Forming**

Fig 5: Signal Processor Implementation Of Diversity Antenna